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WHAT IS CLAIMED IS:

1. A formulation comprising a therapeutically effective amount of growth hormone in an aqueous solution, a buffer that maintains the pH of the formulation at a pH of about 5 to about 7, a non-ionic surfactant, a polymer stabilizer, and optionally further comprising one or more excipient selected from the group consisting of: a divalent cation present in a magnesium salt selected from the group consisting of magnesium hydroxide, magnesium chloride, magnesium sulfate, magnesium citrate, and magnesium edetate; a tonicity agent; methionine; and a preservative, wherein the formulation remains stable after at least one freezing and subsequent thawing event.

- 2. The formulation of claim 1, wherein the human growth hormone is a recombinant form of human growth hormone.
- 3. The formulation of claim 2, wherein the growth hormone is present in the formulation at a concentration of about 0.1 mg/ml to about 20 mg/ml.
- 4. The formulation of claim 1, wherein the buffer is selected from the group consisting of sodium citrate, sodium edetate, sodium succinate, and histidine hydrochloride.
- 5. The formulation of claim 1, wherein the non-ionic surfactant is present at a concentration of about 0.02 % to about 10 %.
- 6. The formulation of claim 1, wherein the non-ionic surfactant is a polysorbate selected from the group consisting of polysorbate 20 and polysorbate 80.
- 7. The formulation of claim 1, wherein the polymer stabilizer is present at a concentration of about 0.001 % to about 70 %.
- 8. The formulation of claim 1, wherein the polymer stabilizer is poly(ethylene) glycol having a molecular weight in the range of about 3000 to about 20,000.
- 9. The formulation of claim 1, wherein the tonicity agent is sorbitol.
- 10. The formulation of claim 1, wherein the preservative is selected from the group consisting of phenol and benzyl alcohol.
- 11. A formulation comprising, about 0.1 mg/ml to about 20 mg/ml of a recombinant form of human growth hormone in an aqueous solution, a citrate or edetate buffer that maintains the formulation at a pH of about 5 to about 7, about 0.04% to about 5% (w/w) of a

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polysorbate surfactant, about 0.001% to about 20% (w/v) of polyethylene glycol, and optionally further comprising one or more excipient selected from the group consisting of; a sufficient concentration of sorbitol for the formulation to be approximately isotonic, methionine, magnesium chloride or magnesium hydroxide, a preservative wherein the formulation remains stable after at least one freeze thaw event.

- 12. The formulation of claim 11, wherein the preservative is phenol or benzyl alcohol.
- 13. The formulation of claim 11, wherein at least about 90% of hGH remains in solution after exposure of the formulation to three or more freeze-thaw events.
- 14. The formulation of claim 11 where the formulation is stable at about 2°C to about 8°C for at least 52 weeks.
- 15. The formulation of claim 14 wherein after storage for 12 months at about 2°C to about 8°C total aggregate as measured by size exclusion HPLC is less than about 0.5%, and/or total deamidation as measured by anion exchange HPLC is less than about 7%, and/or hGH recovery as measured by reverse phase HPLC is greater than or equal to 85%.

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